

Legal Advertisement

CALL FOR BIDS

Camano Island Fire & Rescue (Island County Fire District # One) will accept sealed bid proposals for 10, or more, sets of Firefighter Turnout Bunking Gear until 4PM on December 11th, 2006 at the Fire District Administration Office. Equipment specifications and additional supporting bid procedural information is available at the Fire District Administration Office located at 525 E. North Camano Drive, Camano Island, WA 98282. Sealed Bids must arrive on or before the deadline stated above to be considered eligible for award. Interested parties are advised to contact the fire district @ (360) 629-3008 for information and a bid packet.

The sealed bids will be opened and presented for consideration to the Board of Fire Commissioners at their regular meeting at 7PM on December 11th, 2006.

Agencies, political subdivisions, or municipalities desiring inclusion to this specific bid may do so by making written request to the board of fire commissioners.

The fire district reserves the right to waive any informalities within the bid(s), or to exclude / accept any or all bids, or parts of bids which meet or exceed the specifications, and is not bound to accept the lowest bid.

Published this 30th day of October, 2006

Sealed Bid Information, Restrictions, and Minimum Specifications

Bids will be opened and read aloud at the board of fire commissioners regular meeting scheduled on December 11th, 2006 commencing at 7:30PM. Bidders will be notified within 30 days of the bid opening. No changes in the provisions of the bid will be permitted within the specified bid document.

The bidder's sealed bid shall be sealed in envelope and clearly marked: "SEALED BID – Turnout Gear" delivered to the address: 525 E. North Camano Drive, Camano Island, WA 98282, and MUST ARRIVE no later than 4PM on December 11th, 2006.

All bids shall be inclusive of Washington State Sales Tax and be FOB to 525 E. North Camano Drive, Camano Island, WA 98282.

When deemed in the best interest of the fire district, the district shall not be bound to accept the lowest possible bid. The district reserves the right to waive any informality or irregularity to best serve the needs of the proceedings herein.

The PPE equipment must be in new condition in the unopened factory wrapping. The equipment ordered may be of differing sizes or mixed sets to meet the needs of the fire district and may include protective footwear and/or headwear, but generally would include a turnout coat and trouser ensemble. The vendor will also include information within the bid packet regarding how the equipment can be serviced or repaired in the event the equipment requires repair(s) after the warranty period has elapsed.

The PPE equipment shall meet current NFPA specifications at the time the bid was published. Copies of the manufacturer's warranties shall also be included in the bid packet.

Use of the fire district's bid compliance form is required. Exceptions must be referenced by the corresponding section / sub-section provided within the specifications. Such exceptions must be stated in writing and the bidder shall describe in detail what will be proposed in lieu of the specified requirement. Any bid submitted without exceptions shall be required to meet each detail of the specification, regardless of cost to the bidder. No changes in the pricing schedule will be allowed once the bid is opened and recorded.

A maximum of 60 calendar days shall be allowed for delivery of said equipment. Each bidder with a delivery date of more the thirty (30) calendar days shall disclose such information within their bid.

The equipment will be inspected by the fire district prior to acceptance. Subsequent payment to the vendor that is awarded the bid will follow 30 days net from the date of acceptance.

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND / OR VOLUNTARY EXCLUSION

The prospective bidder certifies by submission of their bid, that neither it, or its principals, is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this bid / contract action by any local, state, or federal department agency wherever federal funds may be the original source of contract funding. If requested by the fire district, the contractor shall complete a **Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion form**. Any such form completed by the Contractor for this Contract shall be incorporated into this Contract by reference.

Bidder signifies their acknowledgement and acceptance to these specific requirements: _____

Date: _____

Questions regarding this bid should be directed to: **Craig S. Helgeland**
Administrative Captain
Office: (360) 629 3008

Debarment, Suspension, Ineligibility or Voluntary Exclusion Certification Form

This certification is submitted as part of a request to contract.

NAME: _____ Doing business as: _____
ADDRESS _____ CITY _____ ST _____ ZIP _____
WA Uniform Business Identifier (UBI) _____ Federal Employer Tax Identification #: _____

Instructions For Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion

READ CAREFULLY BEFORE SIGNING THE CERTIFICATION. Federal regulations require contractors and bidders to sign and abide by the terms of this certification, without modification, in order to participate in certain transactions directly or indirectly involving federal funds.

1. By signing and submitting this proposal, the prospective participant is providing the certification set out below.
2. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to Camano Island Fire & Rescue, (herein after referred to as the department or agency), with which this transaction originated may pursue available remedies, including suspension and/or debarment from acceptance of fire district funds or funds originating from the State of Washington, or the Federal Government.
3. The prospective participant shall provide immediate written notice to the department, to which this proposal is submitted if at any time the prospective participant learns that its certification was erroneous when submitted or had become erroneous by reason of changed circumstances.
4. The terms covered transaction, debarred, suspended, ineligible, covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded, as used in this clause, have the meaning set out in the Definitions and Coverage sections of rules implementing CFR (Code of Federal Regulations) US Code Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations.
5. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under the applicable CFR, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.
6. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion Covered Transaction," without modification, in all covered transactions and in all solicitations for covered transactions.
7. A participant in a covered transaction may rely upon a certification of a prospective participant in a covered transaction that it is not proposed for debarment under applicable CFR, debarred, suspended, ineligible, or voluntarily excluded from covered transactions, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the List of Parties Excluded from Federal Procurement and Non-procurement Programs.
8. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business activity.
9. Except for transactions authorized under paragraph 5 of these instructions, if a participant in a covered transaction knowingly enters into a covered transaction with a person who is proposed for debarment under applicable CFR, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment.

Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion Covered Transactions

The prospective lower tier participant certifies, by submission of this proposal or contract, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this form.

Bidder or Contractor Signature: _____

Date: _____

Printed Name and Title: _____

FEDERAL DEBARMENT, SUSPENSION INELIGIBILITY and VOLUNTARY EXCLUSION

(FREQUENTLY ASKED QUESTIONS)

What is “Debarment, Suspension, Ineligibility, and Voluntary Exclusion”?

These terms refer to the status of a person or company that cannot contract with or receive grants from a federal agency.

In order to be debarred, suspended, ineligible, or voluntarily excluded, you must have:

- had a contract or grant with a federal agency, and
- gone through some process where the federal agency notified or attempted to notify you that you could not contract with the federal agency.
- Generally, this process occurs where you, the contractor, are not qualified or are not adequately performing under a contract, or have violated a regulation or law pertaining to the contract.

Why am I required to sign this certification?

You are requesting a contract or with the Camano Island Fire & Rescue. Federal law (Executive Order 12549) requires Camano Island Fire & Rescue (CIF&R) ensure that persons or companies that contract with CIF&R are not prohibited from having receiving monies that may, in whole or part, originated from federal / grant funds.

What is Executive Order 12549?

Executive Order 12549 refers to Federal Executive Order Number 12549. The executive order was signed by the President and directed federal agencies to ensure that federal agencies, and any state or other agency receiving federal funds were not contracting or awarding grants to persons, organizations, or companies who have been excluded from participating in federal contracts or grants. Federal agencies have codified this requirement in their individual agency Code of Federal Regulations (CFRs).

What is the purpose of this certification?

The purpose of the certification is for you to tell CIF&R in writing that you have not been prohibited by federal agencies from entering into a contract where federal funding may be the original source of funding.

What does the word “proposal” mean when referred to in this certification?

Proposal means a solicited or unsolicited bid, application, request, invitation to consider or similar communication from you to CIF&R.

What or who is a “lower tier participant”?

Lower tier participants means a person or organization that submits a proposal, enters into contracts with CIFR, OR any subcontractor of a contract with CIF&R. If you hire subcontractors, you should require them to sign a certification and keep it with your subcontract.

What is a covered transaction when referred to in this certification?

Covered Transaction means a contract, oral or written agreement, grant, or any other arrangement where you contract with or receive money from Washington Military Department. Covered Transaction does not include mandatory entitlements and individual benefits.

Sample Debarment, Suspension, Ineligibility, Voluntary Exclusion Contract Provision

Debarment Certification. The Contractor certifies that the Contractor is not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in this Contract by any Federal department or agency. If requested by Washington Military Department, the Contractor shall complete a Certification Regarding Debarment, Suspension, Ineligibility, and Voluntary Exclusion form. Any such form completed by the Contractor for this Contract shall be incorporated into this Contract by reference.

Detailed Technical Specifications

for

Protective Clothing for Structural Firefighting
Coat and Pant

And

Structural Firefighting Helmet and Boot

Camano Island Fire and Rescue
525 E North Camano Dr
Camano Island, WA 98282-7295

LEGAL RIGHT TO SPECIFY

The Fire District (for the remainder of this section referred to as the “specifier”) chooses to exercise its Legal Right to Specify as determined by the U.S. Supreme Court’s affirmation of the decision handed down in the case of Whitten Corp. vs. Paddock, by the U.S. District Court of Massachusetts, the First Federal District Court, which in effect states:

- 1) That as trained professionals, specifiers make informed judgments on products that they feel best serve their needs. Also, that proprietary specifications (if chosen) DO NOT violate any antitrust laws. Technically, very few brands of material or equipment are exactly alike, and if the specifier wants to limit the specification to one source, he has the right to do so and enforce it.
- 2) Only the specifier has the responsibility and judgment for determining whether a proposed substitution is an “or equal”.
- 3) That from start to finish in the purchasing process, only the specifier can ultimately decide if another desirable product is available in lieu of the specification.
- 4) Finally, that the courts concluded “the burden is on the supplier or manufacturer, who has NOT been specified, to convince the specifier that their product is equal for the purpose of a particular project”.

The specifier has determined that this product specification shall represent the product to which all offerings shall be compared. Due to the fact that firefighting is an ULTRAHAZARDOUS, UNAVOIDABLY DANGEROUS activity, only trained Fire Department personnel with specific knowledge in the area of Personal Protective Equipment shall be allowed to make the final determining decision on the selection of the appropriate product to serve the Fire District’s needs.

PURPOSE AND SCOPE

This specification defines the minimum requirements for bloodborne pathogen resistant (BPR) firefighter personal protective equipment (PPE) to provide limited protection to fire fighters against adverse environmental effects during structural fire fighting operations and certain other emergency operations where there is a threat of fire or where certain physical hazards are likely to be encountered, such as during non-fire-related rescue operations, emergency medical operations, and victim extraction, as defined by NFPA 1971, *Standard on Protective Ensemble for Structural Fire Fighting*, 2000 Edition (hereinafter referred to as NFPA 1971, except in the Applicable Documents section). In the absence of comment on a particular point, industry standard practice shall be presumed to prevail. Workmanship and material shall be first quality throughout. All exceptions to specifications must be clearly spelled out at the time of bid. In the absence of comment to a specific point, the bidder is required to furnish a wholly compliant garment. Taking a blanket exception shall not be acceptable.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Units of measure

Current NFPA standards applicable to this product specification express values for measurement requirements in SI (metric-based) units, followed by US (inch-pound) approximate equivalents in parentheses. For the convenience of the fire department, this product specification *reverses the order* and presents the more familiar US approximation first, followed by the SI requirement in parentheses.

Delivery Time

Manufacturer must be able to provide the product to the purchaser in a reasonable amount of time.

What is your manufacturer's typical delivery time for all orders? _____

CERTIFICATION

The manufacturer must certify that the garments proposed in its bid meet or exceed all requirements of NFPA 1971. The manufacturer must also list and label this product with Underwriters Laboratories Inc. (UL) or Safety Equipment Institute (SEI), as the third party certification organization prescribed in NFPA 1971. UL, SEI, or a laboratory accredited by UL or SEI shall have performed all certification testing and test preconditioning.

Certification shall include, by definition, the scope of protection as follows: Coat shall provide limited protection resistance to bloodborne pathogens to the upper torso including the arms but excluding the head and neck interface area and the hand and wrist interface area. The pant shall provide limited protection resistance to the lower torso including the legs but excluding the foot and ankle interface area. The coat and pant overlap shall provide limited protection resistance to

the coat/ pant interface area.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Manufacturer must provide, on request, third party certification of the required interface bloodborne pathogen resistant capability.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

The manufacturer shall be registered to ISO 9001, *Quality Management Systems – Requirements*, 2000.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

WARRANTY

The manufacturer must provide a lifetime warranty against defects in materials and workmanship with the bid package.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

PRODUCT COUNTRY OF ORIGIN

For liability reasons, garments must be manufactured in the United States of America or Canada by companies with their assets and incorporation within the United States of America or Canada.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Labeling Requirements

Labels shall be permanently and integrally printed onto breathable materials that meet all the requirements for labels of NFPA 1971. Garment labels shall meet all requirements of NFPA 1971 Flame Resistance Test One (for vertical flame resistance of cloth). The garment shall be clearly labeled to fully identify the material content of all three layers: outer shell, moisture barrier and thermal liner. In addition, each separable layer of garment shall be labeled with the FEMSA-style DANGER label in an obvious location.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Care Instructions

The manufacturer shall provide a user information guide for the garments, which complies with user information requirements of NFPA 1971. Topics shall include, but not necessarily be limited to: pre-use information, preparation for use, inspection frequency and details, don/doff, use consistent with NFPA 1500, maintenance and cleaning, and retirement and disposal criteria and considerations.

This document shall be packaged with each garment along with a specification summary sheet describing garment custom options, sizing and production details.

This written information shall be in complete compliance with NFPA 1971 requirements, and shall reference same.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

TRACEABILITY PROGRAM

The manufacturer shall have in place a computer maintained traceability program that provides for the assignment of a production control number to each garment. The traceability program must be capable of tracing the garment through production, from the bolts of cloth used in all three layers of the garment composite construction, to the assignment of the garment to the individual firefighter. This production control number shall be visibly located on the garment label and on other protected areas of garment.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

SIZING

To ensure a perfect fit, sizing shall be based on actual measurements taken of the firefighter by a trained measurement specialist, or sizing try-ons, or both. Sizing measurements shall be taken according to a schedule and location(s) mutually agreed between the manufacturer and the district.

Garments shall be available in custom sizing as follows: coat chest in 2-inch (5.1 cm) increments, coat sleeve in 0.5-inch (1.3 cm) increments, coat back length in 1-inch (2.5 cm) increments, pant waist in 2-inch (5.1 cm) increments and pant inseam in 1-inch (2.5 cm) increments. A full range of women's sizing, on women's patterns, must also be available. Each sleeve and inseam length shall provide 100% gradation from shoulder to wrist, and from hip to ankle, to provide proper fit for individual arm and leg lengths. Pattern tailoring to custom-fit neck, bicep, hip/seat and thigh circumferences must also be provided, when needed, at no additional charge. Neither Small-Medium-Large-Extra Large sizing nor women's garments cut to men's patterning are considered acceptable, since proper fit facilitates mobility and minimizes stress.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Flammability of Constituent Materials

Labels, bindings, hang-up loops and production labels shall be tested for flame resistance and shall comply with the requirements of NFPA 1971 Flame Resistance Test One (for vertical flammability of cloth).

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Self-Binding

Liner and moisture barrier shall be stitched together and turned, then topstitched, to create a self binding. The extra bulk of separate binding material is specifically prohibited.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Thread

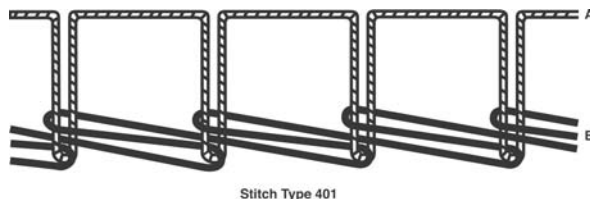
All thread used in structural seams shall be Nomex® of minimum Tex size T-70. Light colored garments and trim areas shall feature yellow thread. Black and dark garments shall feature black thread. Tan or bronze colored garments shall feature tan thread.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Stitch Methods

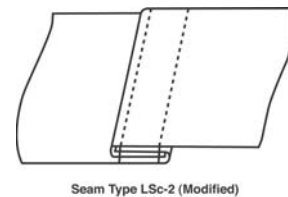
MAJOR A & B SEAMS

Most Major A & B seams (as defined by NFPA 1971) shall be double stitched, double feld throughout all three layers (outer shell, moisture barrier and thermal liner), and shall be made with Nomex® thread, Tex size T-90. Detailed stitch and seam type requirements are shown below.



Stitch Type 401

Double lockstitch, as defined by ASTM D 6193-97.



Modified Seam Type LSc-2

Double feld seam, modified only to ensure that both stitch lines penetrate all layers of cloth at joining, otherwise as defined by ASTM D 6193-97.

Also, all moisture barrier seams shall be tape-sealed to meet all requirements of the NFPA 1971 Liquid Penetration Resistance Test.

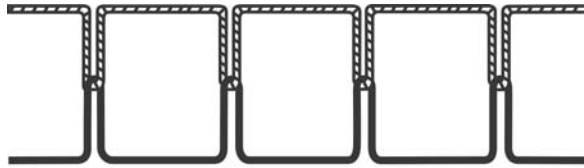
Does Your Bid Comply With All Aspects Of This Section?

For Outer Shell:	Yes _____	No _____
For Thermal Lining:	Yes _____	No _____

For Moisture Barrier: Yes _____ No _____

MINOR SEAMS

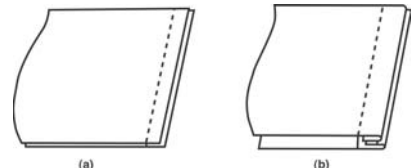
Most Minor seams, such as storm shields and mated hems, shall also be stitched with the specified Nomex thread. Detailed stitch and seam type requirements are shown below.



Stitch Type 301

Stitch Type 301

Lockstitch as defined by ASTM D 6193-97.



Seam Type SSae-2

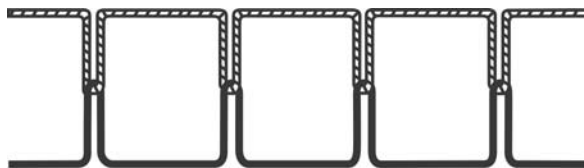
Seam Type SSae-2

As defined by ASTM D 6193-97, shown (a) before and (b) after required turning.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

POCKETS

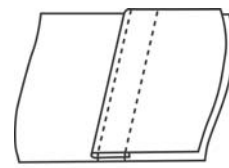
Flat garment pockets shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below.



Stitch Type 301

Stitch Type 301

Lockstitch as defined by ASTM D 6193-97.

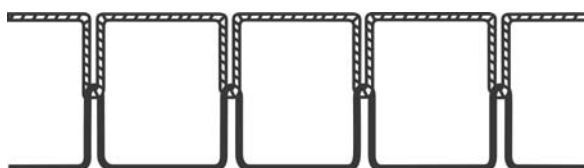


Seam Type LSd-2

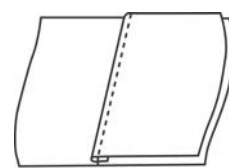
Seam Type LSd-2

As defined by ASTM D 6193-97.

3-Dimensional pocketing shall feature these same construction details, but the reinforced single stitch Seam Type LSd-1 may be substituted for LSd-2. Detailed seam type requirements are shown below.



Stitch Type 301



Seam Type LSd-1

Stitch Type 301

*Lockstitch as defined by
ASTM D 6193-97.*

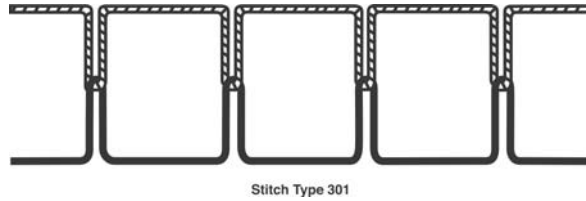
Seam Type LSd-1

As defined by ASTM D 6193-97.

Does Your Bid Comply With All Aspects Of This Section? Yes ____ No ____

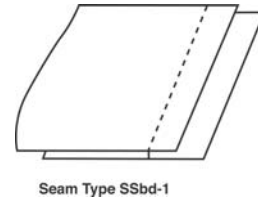
TRIM AND DANGER LABELS

Trim and DANGER labels shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below.



Stitch Type 301

Lockstitch as defined by ASTM D 6193-97.



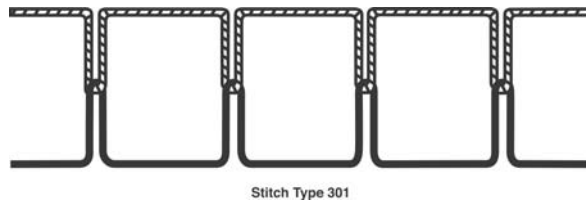
Seam Type SSbd-1

As defined by ASTM D 6193-97.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

SINGLE LAYER HEMMING AND FINISHING

Single layer hemming and finishing shall be stitched with the specified Nomex® thread. Detailed stitch and seam type requirements are shown below.



Stitch Type 301

Lockstitch as defined by ASTM D 6193-97.



Seam Type EFb-1

As defined by ASTM D 6193-97.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Pockets

If exterior pockets are specified in either the COAT CUSTOM OPTIONS TO BE PROVIDED section or in the PANT CUSTOM OPTIONS TO BE PROVIDED section, the following requirements shall apply to all such custom option specified exterior pockets:

All pockets and flaps shall be reinforced at the top corners with bar tack stitching.

All pockets shall be reinforced with an extra layer of NFPA-certified outer shell, moisture barrier, or other NFPA-certified reinforcement material for extra durability. The exact location of the reinforcements shall be identified in the custom options section(s).

All pockets shall have a means to drain water and shall have a means of closure.

All pocket closures shall be made either with hook and loop fastener tape a minimum of 1.5 inches (3.8 cm) wide, with a flap, or with snaps. The specific placement of the closure system shall be declared at the time of order.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Tailored Grading of Garment Linings

Wherever garment linings are specified, including but not limited to thermal linings and moisture barriers, each such lining layer shall be tailor-graded to fit within the overall garment composite of all layers without causing bunching or binding when the garment is worn.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Points of Stress

All points of stress shall be reinforced with sturdy bartacks. Rivets are not acceptable because of their potential for rust and electrical or heat conduction.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

High Temperature, NFPA 1971-Certified Material Reinforcements

Reinforcements shall be provided at cuffs and pockets and shall meet the requirements of NFPA 1971.

For cuff reinforcements only: Manufacturer shall provide cuff reinforcements made of outer shell material at no additional cost. If the purchaser specifies reinforcements made of materials other than outer shell material, the manufacturer shall identify the additional cost for the specified material.

For pocket reinforcements only: Any NFPA 1971-certified material may be used in the reinforcement of the pocket. If the purchaser requests specific NFPA 1971-certified materials for pocket reinforcements, the manufacturer shall identify the additional cost for the specified material.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Asset Tracking Services

Upon request, the manufacturer shall be capable of providing a Windows-compatible software program for the tracking of care, cleaning and maintenance of the department's PPE.

This tracking program shall meet or exceed all record-keeping requirements of standard NFPA 1851, *Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles*, 2001 Edition

Labels on each separable part of the garment shall include a standard style interleaved 2 of 5 barcode containing (at a minimum) an individualized serial number for asset tracking purposes.

The manufacturer must be capable of providing onsite or internet training to department personnel who are involved with the daily use of this tracking program, and if there is an additional cost involved for this service, the Bidder must disclose those costs at the time of bid.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Repairs and Alteration Support

The manufacturer shall furnish, free of charge, reasonable quantities of NFPA 1971-certified thread, materials and other supplies to allow the department to manage its own ongoing internal maintenance efforts. Also, the manufacturer shall provide on call at no charge, during normal business hours, a liaison for the repair department to assist the Fire Department on a telephone consultation basis, on all maintenance or repair questions that might arise. Additionally, the manufacturer shall agree to expedite, on its own cost-only basis, all repairs that must be performed at the manufacturer's plant, rather than in department, over the life of the contract.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Preclusion of PVC Foam or Similar Foam

Because safety is the overriding factor in determining the composite makeup of PPE, and because the use of PVC foam, non-breathable neoprene foam, or foams of any type, may contribute to a loss of protective performance over time and/or after exposure to heat, sweat, etc., this specification precludes all use of PVC foam or foams of any type, as a component of the PPE garments, and such material may not be used anywhere in the PPE garment composite. Any exception taken, or any non-compliance with this section, must be disclosed.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Breathability Requirement

Excluding where required by NFPA standard, necessary for functionality, or specifically called out in the custom option sections, all materials used in the construction of the garments shall be breathable and all moisture barrier material must be as specified in the following materials section, or must be Crosstech.

The breathability requirement includes but is not limited to: collar, chinstrap, storm shield, fly, waterwells, front coat facings, labels, and reinforcement cushioning where applicable.

Areas where non-breathability is allowed (absent Custom Option specifications): trim, hook and loop fastening, hardware or hardware backing, and external pocketing.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Applicable Documents

The following standards in their active versions on the date of invitation for bid shall form a part of this specification to the extent specified herein.

<u>STANDARD</u>	<u>TITLE</u>
ASTM D 6193-97	Standard Practice for Stitches and Seams
NFPA 1500, 2002 Edition	Standard on Fire Department Occupational Safety and Health Program
NFPA 1851, 2001 Edition	Standard on Selection, Care, and Maintenance of Structural Fire Fighting Protective Ensembles
NFPA 1971, 2000 Edition	Standard on Protective Ensemble for Structural Fire Fighting

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

COAT

To avoid liability and interface problems, coats and pants shall be procured from the same manufacturer.

Design Concept (Styling)

Coat styling shall be "Tails" design. The coat shall be approximately 6 inches (15.2 cm) longer at the rear hem than at the front. **"Name Plates" or other attachable plates, patches, or other products that attach to the back rear of coat by hook and loop fastening, or by snaps or zippers are not acceptable substitutes (since these "fake" tails do not provide all layer protection and this still requires the use of bibbed pants to preclude protective gap.** The coat composite (all three layers) shall not gap when the firefighter is bending, crawling or climbing. Gapping shall be determined as defined by NFPA 1500 with both arms fully overhead and wearer bending to rear, sides and front. The actual length of coats (shorter or longer) will be

determined by each individual's torso length. Coat must interface properly with standard height pants.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Patterning Concept

Garments shall feature a tailored three-piece body, one-piece back construction throughout the outer shell, moisture barrier and thermal liner layers. One-piece garments (either all layers or some layers) will not be considered acceptable since they cannot be tailored to hard-to-fit personnel. Similarly, garments with seams in mid-back are not considered acceptable because of backbone irritation that can occur with SCBA use. To facilitate individual tailoring needs, the major A & B seams joining the one-piece back to the right and the left front body panels (outer shell and all interior layers) shall be located at the most lateral position when the coat is laid flat for inspection.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Patterning Requirements

To assure maximum freedom of movement and reduce kinetic resistance with minimum garment weight and bulk, coat patterning shall include the following features:

- Degree of slope on shoulders shall be no more than 20%.
- Hydraulic Butterfly sleeve patterning with 85-degree Lift Up Release Action shall be provided to minimize coat hem rise.
- Sleeve attachment shall minimize shoulder lift and allow a full 360 degrees freedom of movement.
- Coat hem rise with overhead reach of both arms not to exceed 4-inch (10.2-cm) maximal extension on properly fitted garments.
- Shell-and-liner retraction at the cuff shall not exceed 1 inch (2.5 cm) when both arms are raised overhead. This helps eliminate wrist exposure.
- 10-inch (25.4-cm) chest over-sizing shall be provided.
- Coat sweep measurements must be consistent with the chest over-size at the hem.
- Reach when measured from cuff to cuff, with coat lying flat, and standard length sleeves extended to each side, shall be provided as detailed below.

<u>Chest Size</u>	<u>Standard Reach</u>
40 in (101.6 cm)	66 in (167.6 cm)
42 in (106.7 cm)	67 in (170.2 cm)
44 in (111.8 cm)	68 in (172.7 cm)
46 in (116.8 cm)	68 in (172.7 cm)

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Liner Attachment

The completed liner-moisture barrier assembly shall attach by means of four (4) evenly spaced glove snaps to each outer shell front facing to reduce weight, bulk and stiffness. To provide continuous moisture and pathogen protection at the front, the liner shall be positioned so it is sandwiched between the coat front facing and a breathable pathogen shield. The use of zippers or hook and loop fasteners in this area is not allowed due to their added weight, bulk and stiffness.

Liner sleeves shall be attached at the outer shell cuff by means of snaps on two (2) sets of outer shell fabric tabbing strips per cuff. These snaps shall be isolated by the tabbing material so that they will not abrade against the outer shell.

To provide continuous moisture protection and pathogen protection at the neck, the liner shall be positioned so that it is sandwiched between an outer-facing pathogen shield and an inside facing of the specified outer shell material, both folded over and sewn in at the neck seam.

The liner system design shall not allow products of combustion or other contaminants to move into the liner interior between the moisture barrier and thermal liner. For instance, separately hemmed and bartacked liner and moisture barrier with open edge designs would not be acceptable.

Attachment shall be by means of four (4) glove straps that penetrate only the layer of the attachment facing towards the liner, so that metal contact at a wearer's neckline is completely eliminated.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Coat Certification Label on Liner

The coat certification label on the liner shall be integrally printed on FR Cotton or Indura® and lockstitched to the inside right body panel in a fashion to provide an inside liner pocket.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Coat Certification Label on Shell

The coat certification label on the shell shall be integrally printed on FR Cotton / Indura® and lockstitched to the shell along one side of the label at the back of coat.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Collar

The collar shall be of layered construction, consisting of a layer of breathable moisture and pathogen barrier material and another layer of NFPA 1971-certified insulating material (no foam – see section titled PRECLUSION OF PVC FOAM OR SIMILAR FOAM), sandwiched between two (2) layers of specified outer shell material and at least 4 inches (10.2 cm) high. The design shall incorporate in its patterning a natural contour that will allow proper fit and performance in the standing (upright) or stowed position.

There shall be no vertical or horizontal seams or stitching in the body of the collar, since this may weaken collar integrity. Left outside of collar shall have a sewn piece of 3-inch x 5-inch (7.6-cm x 12.7-cm) hook and loop fastener hook tape to ensure maximum adjustability when engaging chinstrap-to-collar closure. Each collar shall be graded to individual coat sizes.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Chin Strap

The chin strap shall be of layered construction identical to that of the collar configuration described in the previous paragraphs. Chin straps shall be 8 inches (20.3 cm) long across the top corners, 11 inches (27.9 cm) long across the bottom corners, and 4 inches (10.2 cm) in vertical height, measured at the center. The leading underside edge of the chin strap shall have a 1.5-inch-wide (3.8 cm-wide) horizontal strip of hook and loop fastener pile to ensure closure and to ensure passage of the Whole Garment Liquid Penetration Test.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

An 80-pound (36.3 kg) tear strength hang-up loop shall be provided at the interior collar seam. The loop shall be constructed of triple layers of the specified outer shell material, lockstitched to the coat. Webbing is not acceptable.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Sleeves

To prevent stovepiping, sleeves shall be individually graded by coat size and sleeve length. For maximum freedom, sleeve design shall feature extra full cut one-piece outer shell set-in sleeves with built-in bellows. To reduce the chances of possible top seam failure in that high thermal exposure area, the sleeve Major A seam shall follow the underside of the arm and shall not cross over the outside of the elbow joint. Sleeve seam and sleeve attachment to coat body in all layers shall be 100% double fold and double stitched for maximum strength (that is, Major A seam requirement, as previously defined in this specification).

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Inner Wristlet & Waterwell

Every coat shall feature 4.5-inch (11.4-cm) long, double-layer 100% Nomex knit inner wristlets protected by a flame-resistant and moisture-resistant waterwell. The inner wristlet shall be sewn to the thermal liner sleeve end (not to the outer shell). A specified moisture barrier waterwell with an elastic gather shall be sewn to the moisture barrier sleeve end with all seams sealed to allow maximum channeling of water away from inside the moisture barrier/ thermal liner sleeve end. This waterwell must pass the NFPA 1971 Whole Garment Liquid Penetration Test. The thermal liner/wristlet shall be bar tacked and seam sealed at the junction of the moisture barrier sleeve to waterwell seam to prevent liner pullout. This inner waterwell assembly shall be interface capable with the appropriate glove to provide wrist protection during the NFPA 1971 Whole Garment Liquid Penetration Test.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

External Wristlet

Every coat shall feature a 2.5-inch (6.4 cm) long 100% Nomex knit outer wristlet, which shall be mounted to the end of each outer shell sleeve to prevent liquid and debris movement up the sleeve between the outer shell and the moisture barrier/ thermal liner assembly.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Front Closure Protective Overlap

Two-inch-wide (5.1 cm-wide) panels of breathable moisture/ pathogen barrier and specified thermal liner materials shall be provided at coat front closure facings to preclude any type of break in the protective envelope. The entire circumference of a closed coat shall consist of specified shell, moisture barrier and thermal liner materials.

The inside trailing edge of each 2-inch-wide (5.1-cm-wide) inner panel shall have the breathable moisture/ pathogen material wrapped around the edge by 0.5 inch (1.3 cm) to create an anti-wick guard to prevent soakthrough during the required NFPA 1971 Whole Garment Liquid Penetration Test. An additional layer of 6-inch-wide (15.2-cm-wide) breathable moisture/ pathogen barrier material shall be sewn between the 2-inch-wide (5.1 cm-wide) panels and outer shell coat body for the entire length of coat front in a fashion to prevent liquid entry during the NFPA 1971 Whole Garment Liquid Penetration Test.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Composite Materials

The specifier has determined the ONLY acceptable combination of materials. Any substitution of materials, or exceptions taken, must be disclosed.

OUTER SHELL

7.5 oz.; PBI ripstop weave; 40% PBI/60% Kevlar; Enhanced water resistance (EWR) - Bronze

THERMAL LINING

7.9 oz.; 100% Spun 3.4 oz. Nomex facecloth; 3 layers 1.5 oz. E89

MOISTURE BARRIER

5.0 oz; Crosstech Bi-Component (PTFE) on a 3.2 oz. Nomex III A facecloth

Does Your Bid Comply With All Aspects Of This Section?

For Outer Shell:	Yes	_____	No	_____
For Thermal Lining:	Yes	_____	No	_____
For Moisture Barrier:	Yes	_____	No	_____

Coat Custom Options to be Provided

Instructions in this custom options section that contradict earlier specifications or statements will supersede those earlier specifications or statements as long as the required certifications are not compromised.

LTO Chinstrap

Coat Cuffs

Liner Detachable

Liner Label Pocket

Take Up Straps 2 Postman

New York style trim -Lime 2-Tone Scotchlite

Hem Patch Velcro attachment -PBI EWR Bronze

FF LAST NAME or 1st INITIAL + LAST NAME - avg. 7 letters

-Ok to use 2" letters to fit

7 -3" sewn letters -lime Scotchlite

2" Velcro/Zipper Coat Closure -PBI EWR Bronze

Dead Air Panels Extended - Coat

Inspection Port Liner - Coat

Half Hi Bellows Pockets -PBI EWR Bronze - 7" x 9" x 1.5"

Handwarmers in Front of Bellows Pockets -PBI EWR Bronze

Mic Tab -PBI EWR Bronze - left chest - 0.5" x 2.5"

2" above Radio Pocket

Radio Pocket -PBI EWR Bronze - left chest - 8" x 3.25" x 2.5"

Survivor style Flashlight Straps -PBI EWR Bronze - right chest

NFPA 2007 Edition Construction and Labeling

Articulating Rapid Rescue Strap with New Coat

Nomex-Tabbed Long Wristlets

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

PANTS

To avoid liability and interface problems, coats and pants shall be procured from the same manufacturer.

Design Concept (styling)

The pant shall be of a traditional waist-high-only design to facilitate full torso ventilation of front, rear and sides of trunk for maximum body cooling effect to help minimize firefighter heat stress. For this reason, other than waist-high pants shall not be considered acceptable or “equal,” since additional trunk wrapping traps heat and moisture, increasing heat stress buildup while also creating mechanical resistance when covering the natural torso flexion point of the waist.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Patterning Concept

Garments shall feature a tailored four-piece outer shell with a two-piece moisture barrier and lining. A pant with a four-piece moisture barrier and thermal liner shall be provided, at no additional charge, when and if an individual’s tailoring needs require it.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Patterning Requirements

To assure maximum freedom of movement and reduced kinetic resistance with minimum garment weight and bulk, the pants patterning shall:

- incorporate hydraulic, swivel action leg-to-torso interfaces.
- incorporate an oversized diamond-shaped crotch insert, graded according to size, for maximum action stride, optimum stepping reach and no “in-crotch” seaming.
- meet individual tailoring needs, and offer superior functionality. Diamond shall extend from just above the left knee to just above the right knee, and be centered equally from front to rear. Width of diamond at top of crotch shall be approximately 4 inches (10.2 cm), graded to size.
- ensure that pants rest in normal body line balance of 22 inches (55.9 cm) center distance at the cuff.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Suspender Buttons

Eight (8) heavy duty, rust-resistant suspender buttons shall be positioned around the waist. Suspender buttons shall be mounted through waistband of triple layer outer shell material that is internally reinforced with an additional band of coated needlepunch aramid.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Liner Attachment

The moisture barrier and thermal liner assembly shall be attached to the outer shell at the cuff by means of two (2) Nomex® webbing snap assemblies per leg, and to the waistband, at the waist, with seven (7) evenly-spaced glove snaps.

The liner system design shall not allow products of combustion or other contaminants to move into the liner interior between the moisture barrier and thermal liner. For instance, separately hemmed and bartacked liner and moisture barrier with open edge designs would not be acceptable.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Pant Certification Label on Liner

The pant certification label on the liner shall be integrally printed on FR Cotton or Indura and lockstitched to the inner left hip area.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Pant Certification Label on Shell

The pant certification label on the shell shall be integrally printed on FR Cotton Indura and lockstitched at the top rear of the waist, at the inside.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Fly Front

The outer shell fly shall be lockstitched to the left side of the front opening and shall be in proportion to waist size and crotch rise in both length and width. Fly inner lining shall extend at least 2 inches (5.1 cm) to the left of the outer shell fly attachment seam and shall be constructed of certified breathable moisture barrier and thermal liner. The right front pant opening shall have an internal facing extending at least 2 inches (5.1 cm) to the right and constructed of specified fabric. In combination with the liner, the system shall offer 360-degree protection without gaps during movement of the outer shell moisture barrier and thermal liner. Closure shall be by

means of a minimum 1.5-inch-wide (3.8-cm-wide) hook and loop fastener, and all construction techniques used shall provide liquid penetration protection under the NFPA 1971 Whole Garment Liquid Penetration Test. The fly shall be graded to the waist size of garments and crotch rise.

Does Your Bid Comply With All Aspects Of This Section? Yes _____ No _____

Composite Materials

The specifier has determined the ONLY acceptable combination of materials. Any substitution of materials shall be grounds for immediate disqualification of bid without further consideration.

OUTER SHELL

7.5 oz.; PBI ripstop weave; 40% PBI/60% Kevlar; EWR - Bronze

THERMAL LINING

7.9 oz.; 100% Spun 3.4 oz. Nomex facecloth; 3 layers 1.5 oz. E89

MOISTURE BARRIER

5.0 oz; Crosstech Bi-Component (PTFE) on a 3.2 oz. Nomex III A facecloth

Does Your Bid Comply With All Aspects Of This Section?

For Outer Shell:	Yes _____	No _____
For Thermal Lining:	Yes _____	No _____
For Moisture Barrier:	Yes _____	No _____

Pant custom options to be provided

Instructions in this custom options section that contradict earlier specifications or statements supersede those earlier specifications or statements as long as the required certifications are not compromised.

Narrow 1.5" Velcro Fly
Liner Detachable
3" Cuff trim -Lime 2-Tone Scotchlite
Inspection Port Liner - Pant
Angled Cuffs -Pants -PBI EWR Bronze
Heat Channel Knees -Kevlar/Nomex Black
3 Layers Insulation in Heat Channel Knees
Take Up Straps 2 Postman -PBI EWR Bronze
Bellows Pockets -Pants -PBI EWR Bronze - 9" x 9" x 1.5"
NFPA 2007 Edition Construction and Labeling
Dyna-Fit Suspenders (8 point) w/Circles Installed
Suspender Padding
Quick Adjust Option

Does Your Bid Comply With All Aspects Of This Section? Yes ____ No ____

PERCENTAGE SPECIFICATION COMPLIANCE CALCULATIONS

	Total Number “Yes/No” Questions		
	Total Number of Yes Answers		
	Total Number of No Answers		
% Specification Compliance: $[(\text{Total Yes Answers}) \div (\text{Total Answers})] \times 100\%$			%
<p>Each “No” answer requires a full written explanation.</p> <p>Each “Yes/No” question not checked where provided will be considered a “No” answer.</p>			

HELMET

Composite Materials

Helmet shall be the Cairns 660C model and shall meet all specifications and requirements of NFPA 1971-2000. Helmet should include a durable DuraGlas® fiberglass composite shell, with through color and non-corroding, high-temperature, goggle hardware. Including ultra high-temperature (TPR) edge trim that will not melt or drip and a Nomex chinstrap with one-hand quick release buckle and postman for quick and easy adjustment. Nomex or Pbi/Kevlar earlap for increased neck/ear coverage and protection, a three-position rear ratchet height adjustment to ensure a secure and comfortable fit for all head sizes between 6-3/8 and 8-3/8 inches, a choice of flannel or leather cushion liners, removable for washing and upgrading.

Does Your Bid Comply With All Aspects Of This Section? Yes ____ No ____

Faceshield/Eye Protection

Eye protection provided must meet all specifications and requirements of NFPA 1971-2000. Helmet should include ESS (Eye Safety Systems, Inc.) Innerzone Two structural goggles with all appropriate mounting hardware. The mounting system consists of a low-profile post design. Firefighters can use the goggles alone or with a faceshield, store them on the front or back of the helmet or quickly remove them, as desired.

Does Your Bid Comply With All Aspects Of This Section? Yes ____ No ____

LEATHER BOOTS

Materials and Features

Boots should be of similar construction to the Pro Warrington Model 4132 Bunker Boot and meet or exceed NFPA 1971, 2000 edition. The boots shall be a 14" high black, pull-on bunker style boot made of polished leather and a Kevlar/Nomex fabric upper. The boot should have a waterproof/breathable Crosstech lining that will not support growth of bacteria. The boot should also have a slip resistant tread design and have abrasion and chemical resistant properties. The lug soles should be a double stitched and reinforced Vibram design with a re-enforced scuff-resistant toe. The boot should also have a resistant steel ladder shank and stainless steel puncture resistant bottom plate in addition to an internal shinguard for added protection of the tibia area. The boot shall also be available in both men's and women's sizes.

Does Your Bid Comply With All Aspects Of This Section? Yes ____ No ____

RUBBER BOOTS

Materials and Features

Boots should be of similar construction to the Ranger Shoe Fit Firewalkers Model 5118 (non-insulated) Bunker Boot and meet or exceed NFPA 1971, 2000 edition. The boots shall be a 16" non insulated rubber construction with a Kevlar/Nomex lining. The boot should also have a slip resistant tread design and have abrasion and chemical resistant properties. The boot should also have a wide angle lug outsole and padded shin protector. The boot shall also be available in both men's and women's sizes.

Does Your Bid Comply With All Aspects of This Section? Yes ____ No ____